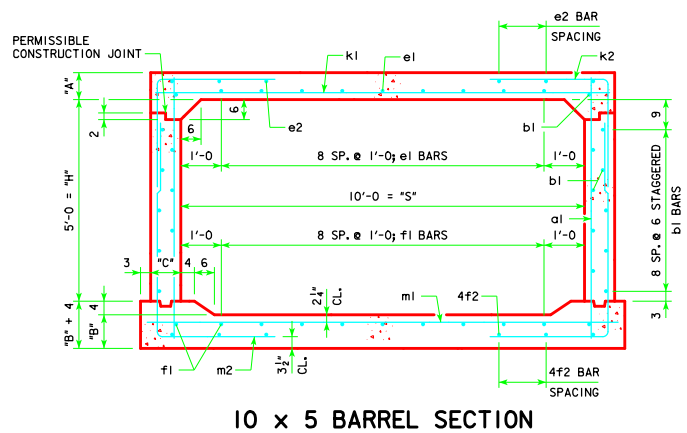
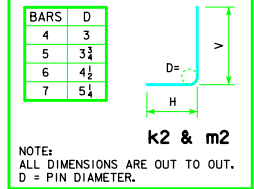




VARIABLE DIMENSIONS AND QUANTITIES FOR 10 x 5 BARREL SECTIONS

FILL		DIMENSIONS				BAR LIST																								QUANTITIES																			
S	H	A	B	C	D	SIZE	SP.	L	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	CONCRETE (CY/FT)	STEEL (LB/FT)									
																																						SLAB	FLOOR	WALLS	TOTAL								
0	10	5	12.5	12	9	9	4	12	6"-11	4	6	20	4	12	9	4	15	6	4	12	11	4	13	8	5	6	11'-2	6	12	6'-9	3'-2	3'-7	6	11'-2	6	9	11'-8	7	12	9'-4	3'-11	5'-5	7	11'-8	0.476	0.481	0.257	1.214	158.45
1	10	5	12	12	9	6	4	6	6"-11	4	6	20	4	12	9	4	15	6	4	12	11	4	15	6	6	9	11'-2	4	6	6'-4	3'-2	3'-2	4	11'-2	6	9	11'-8	4	6	8'-7	3'-2	5'-5	4	11'-8	0.458	0.481	0.257	1.196	141.95
2	10	5	8	10	9	9	4	9	6'-5	4	6	20	5	12	9	4	15	6	4	12	11	4	15	6	7	9	11'-2	5	6	6'-2	3'-1	3'-1	5	11'-2	6	6	11'-8	5	6	8'-5	3'-2	5'-3	5	11'-8	0.316	0.407	0.257	0.980	179.53
3	10	5	8	10	9	9	4	9	6'-5	4	6	20	4	12	9	4	14	6	4	12	11	4	14	6	6	6	11'-2	5	6	6'-0	3'-0	3'-0	5	11'-2	6	6	11'-8	5	6	8'-2	2'-11	5'-3	5	11'-8	0.316	0.407	0.257	0.980	176.53
4-7	10	5	8	10	9	9	4	12	6'-5	4	6	20	4	12	9	4	14	6	4	12	11	4	14	6	7	9	11'-2	5	6	5'-10	2'-11	2'-11	5	11'-2	6	6	11'-8	5	6	8'-2	2'-11	5'-3	5	11'-8	0.316	0.407	0.257	0.980	170.97
8-10	10	5	8	10	9	9	4	9	6'-5	4	6	20	4	12	9	4	13	6	4	12	11	4	13	6	6	6	11'-2	5	6	5'-8	2'-10	2'-10	5	11'-2	6	6	11'-8	5	6	8'-0	2'-9	5'-3	5	11'-8	0.316	0.407	0.257	0.980	174.39
11-15	10	5	8.5	10.5	9	9	5	12	6'-6	4	6	20	4	12	9	4	13	6	4	12	11	4	12	6	7	6	11'-2	5	6	5'-8	2'-10	2'-10	5	11'-2	7	6	11'-8	5	6	7'-11	2'-7	5'-4	5	11'-8	0.334	0.425	0.257	1.016	201.55
16-20	10	5	10.5	13	9	6	4	6	6'-10	4	6	20	4	12	9	4	10	6	4	12	11	4	10	6	7	6	11'-2	6	9	5'-9	2'-4	3'-5	6	11'-2	7	6	11'-8	6	9	7'-9	2'-3	5'-6	6	11'-8	0.405	0.518	0.257	1.180	205.61
21-25	10	5	12.5	14	9	6	4	6	7'-1	4	6	20	4	12	9	4	9	6	4	12	11	4	10	6	8	6	11'-2	6	9	5'-9	2'-2	3'-7	6	11'-2	8	6	11'-8	6	9	7'-10	2'-3	5'-7	6	11'-8	0.476	0.555	0.257	1.288	235.61
26-30	10	5	13.5	16	9.5	9	5	12	7'-4	4	6	20	4	12	9	4	9	6	4	12	11	4	10	6	8	6	11'-3	5	6	5'-7	2'-3	3'-4	5	11'-3	8	6	11'-9	5	6	8'-1	2'-4	5'-9	5	11'-9	0.516	0.634	0.271	1.421	233.61
31-35	10	5	15	17.5	10	6	4	6	7'-7	4	6	20	4	12	9	4	10	6	4	12	11	4	10	6	8	6	11'-4	6	9	6'-2	2'-5	3'-9	6	11'-4	8	6	11'-10	6	9	8'-4	2'-5	5'-11	6	11'-10	0.575	0.696	0.285	1.556	242.63
36-40	10	5	16.5	19	10.5	9	5	12	7'-10	4	6	20	4	12	9	4	10	6	4	12	11	4	11	6	8	6	11'-5	5	6	6'-1	2'-6	3'-7	5	11'-5	8	6	11'-11	5	6	8'-7	2'-7	6'-0	5	11'-11	0.635	0.757	0.301	1.693	240.71
41-45	10	5	17.5	20	11	6	4	6	8'-0	4	6	20	4	12	9	4	11	6	4	12	11	4	11	6	9	6	11'-6	6	9	6'-7	2'-7	4'-0	6	11'-6	9	6	12'-0	6	9	8'-9	2'-8	6'-1	6	12'-0	0.677	0.800	0.315	1.792	283.82
46-50	10	5	19	21	11.5	6	4	6	8'-3	4	6	20	4	12	9	4	11	6	4	12	11	4	11	6	9	6	11'-7	6	9	6'-10	2'-9	4'-1	6	11'-7	9	6	12'-1	6	9	8'-11	2'-9	6'-2	6	12'-1	0.738	0.845	0.329	1.912	287.39
51-55	10	5	20	22.5	12	6	4	6	8'-5	4	6	20	4	12	9	4	12	6	5	12	11	4	12	6	9	6	11'-8	6	9	7'-0	2'-10	4'-2	6	11'-8	9	6	12'-2	6	9	9'-3	2'-11	6'-4	6	12'-2	0.781	0.909	0.344	2.034	295.16

BENT BAR DETAIL



- NOTES:**
1. DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH SHEET RCB G2-12.
 2. THE K2 AND M2 BARS HORIZONTAL LEGS MAY LAP IN LOW FILL SITUATIONS.
 3. DIMENSIONS "A", "B", "C", "D", AND "SP." LISTED IN THE BAR LIST ARE IN INCHES.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	STANDARD DESIGN SINGLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012
CULVERT BARREL DETAILS 10 x 5 BARREL SECTIONS			RCB 10-5-12

ENGL15HURFDISIGNEDSINGLECULVERTS.DGN - RCB 10-5-12 - THIS SHEET ISSUED 04-12